

04/11/06 Claim Tree for 10806008

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## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	6933	((solid or (hot adj melt\$4) or "hot-melt" or (phase adj chang\$4) or "phase-change") adj ink) or (ink adj stick)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 12:37
S2	1464	347/7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 14:11
S3	3016	347/19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 14:11
S4	56	S1 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 14:12
S5	352112	recycl\$4 or "re-cycle"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 14:13
S6	3	S4 and S5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 14:14
S7	53	S4 not S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 14:26
S8	617	S3 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 14:26

## EAST Search History

S9	59	S8 and S5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 14:26
S10	57	S9 not S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 15:10
S11	456	347/88	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 15:10
S12	254	347/99	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 15:10
S13	530	S11 or S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 15:11
S14	311	S13 and S1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 15:12
S15	13	S14 and S5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 15:15
S16	517	S13 not S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 15:15

## EAST Search History

S17	500	S16 not S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/05 15:15
S18	500	S17 not S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 12:21
S19	1	("5406315").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/07 12:22
S20	1	("6089686").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/07 12:29
S21	7	((("5406315") or ("6089686") or ("5386224") or ("5694156") or ("6244680") or ("6561635") or ("6981754"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/04/07 12:30
S22	7	(US-5386224-\$ or US-5406315-\$ or US-5694156-\$ or US-6089686-\$ or US-6244680-\$ or US-6561635-\$ or US-6981754-\$).did.	USPAT	OR	OFF	2006/04/07 12:31
S23	0	((US-5386224-\$ or US-5406315-\$ or US-5694156-\$ or US-6089686-\$ or US-6244680-\$ or US-6561635-\$ or US-6981754-\$).did.) and recycl\$4	USPAT	OR	OFF	2006/04/07 12:31
S24	2189	347/85	USPAT	OR	OFF	2006/04/07 12:31
S25	415	347/95	USPAT	OR	OFF	2006/04/07 12:31
S26	833	347/84	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 12:32
S27	2372	347/85	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 12:32
S28	434	347/95	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 12:32

## EAST Search History

S29	456	347/88	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 12:32
S30	254	347/99	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 12:32
S31	2867	S26 or S27 or S28	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 12:32
S32	2729	S31 not S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 12:32
S33	2716	S32 not S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 12:33
S34	6941	((solid or (hot adj melt\$4) or "hot-melt" or (phase adj chang\$4) or "phase-change") adj ink) or (ink adj stick)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 12:33
S35	119	S33 and S34	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 12:41
S36	8	S35 and recycl\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/07 12:48
S37	4	(("6385407") or ("20020085051") or ("6969136") or ("6739689")).PN.	US-PGPUB; USPAT	OR	OFF	2006/04/07 12:48

## EAST Search History

S38	4	(US-20020085051-\$).did. or (US-6385407-\$ or US-6739689-\$ or US-6969136-\$).did.	US-PGPUB; USPAT	OR	OFF	2006/04/07 12:49
S39	3	((US-20020085051-\$).did. or (US-6385407-\$ or US-6739689-\$ or US-6969136-\$).did.) and recycl\$4	US-PGPUB; USPAT	OR	OFF	2006/04/07 12:55
S40	1	("5666141").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/07 14:26
S41	1	("6739689").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/07 14:48
S42	1	("5406315").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/07 14:49
S43	12	((("5406315") or ("6089686") or ("6739689") or ("5386224") or ("5694156") or ("6244680") or ("6561635") or ("6385407") or ("5519418") or ("20020085051") or ("6530519") or ("6969136"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/04/07 14:51
S44	12	(US-20020085051-\$).did. or (US-5386224-\$ or US-5406315-\$ or US-5519418-\$ or US-5694156-\$ or US-6089686-\$ or US-6244680-\$ or US-6385407-\$ or US-6530519-\$ or US-6561635-\$ or US-6739689-\$ or US-6969136-\$).did.	US-PGPUB; USPAT	OR	OFF	2006/04/07 14:52
S45	0	((US-20020085051-\$).did. or (US-5386224-\$ or US-5406315-\$ or US-5519418-\$ or US-5694156-\$ or US-6089686-\$ or US-6244680-\$ or US-6385407-\$ or US-6530519-\$ or US-6561635-\$ or US-6739689-\$ or US-6969136-\$).did.) and rheostat	US-PGPUB; USPAT	OR	OFF	2006/04/07 14:52
S46	1	((US-20020085051-\$).did. or (US-5386224-\$ or US-5406315-\$ or US-5519418-\$ or US-5694156-\$ or US-6089686-\$ or US-6244680-\$ or US-6385407-\$ or US-6530519-\$ or US-6561635-\$ or US-6739689-\$ or US-6969136-\$).did.) and valve	US-PGPUB; USPAT	OR	OFF	2006/04/07 15:12
S47	1	("5501535").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/07 15:13
S48	456	347/88	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 19:22

## EAST Search History

S49	254	347/99	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 19:22
S50	530	S48 or S49	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 19:22
S51	351821	recycl\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 19:22
S52	352326	S50 or S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 19:23
S53	25	S50 and S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 19:26
S54	1	("6969136").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/08 21:28
S55	1	("5406315").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/08 21:34
S56	1464	347/7	US-PGPUB; USPAT	OR	OFF	2006/04/08 21:36
S57	7237	rheostat	US-PGPUB; USPAT	OR	OFF	2006/04/08 21:36
S58	2	S56 and S57	US-PGPUB; USPAT	OR	OFF	2006/04/08 21:36
S59	15522	ink with (detect\$4 or sens\$4)	US-PGPUB; USPAT	OR	OFF	2006/04/08 21:41
S60	1464	347/7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 21:36

## EAST Search History

S61	7826	rheostat	US-PGPUB; USPAT	OR	ON	2006/04/08 21:48
S62	2	S60 and S61	US-PGPUB; USPAT	OR	ON	2006/04/08 21:36
S63	24	S59 and S61	US-PGPUB; USPAT	OR	ON	2006/04/08 21:37
S64	1846	ink with (detect\$4 or sens\$4) with level	US-PGPUB; USPAT	OR	ON	2006/04/08 21:48
S65	2	S61 and S64	US-PGPUB; USPAT	OR	ON	2006/04/08 21:45
S66	1	("6050665").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/08 21:45
S67	1	("5788833").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/08 21:46
S68	1	("6050665").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/08 21:46
S69	30414	rheostat	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 21:48
S70	2894	ink with (detect\$4 or sens\$4) with level	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 21:49
S71	4	S69 and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 21:48
S72	2	S71 not S65	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 21:48
S73	31281	ink with (detect\$4 or sens\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 21:49



## EAST Search History

S74	50190	(ink with amount)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 21:50
S75	7	S69 and S73 and S74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 21:51
S76	1	("5788833").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/08 21:59
S77	1464	347/7	US-PGPUB; USPAT	OR	OFF	2006/04/08 21:59
S78	1464	347/7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/08 21:59
S79	2566	switch with (container or cartridge) with level	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 22:00
S80	1464	347/7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 21:59
S81	6	S79 and S80	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 22:00
S82	928	switch\$4 with (ink with (level or amount))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 22:01

## EAST Search History

S83	78	S80 and S82	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 22:01
S84	148861	(plurality with (container or cartridge or reservoir))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/08 22:02
S85	19575	(ink with level)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 11:48
S86	30434	(switch with (container or cartridge))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 11:58
S87	57	S85 same S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 11:49
S88	37795	(switch\$4 with (container or cartridge))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 12:42
S89	65	S85 same S88	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 11:57
S90	1464	347/7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 11:57

## EAST Search History

S91	763	S85 and S90	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 11:58
S92	1664853	(container or cartridge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 11:58
S93	2969	S85 same S92	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 11:58
S94	427	S90 and S93	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 11:58
S95	415	S94 not S89	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 11:58
S96	58357	(chang\$4 with (container or cartridge))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 12:43
S97	310	S85 same S96	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 12:43
S98	70001	threshold adj level	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 12:43

## EAST Search History

S99	13	S97 and S98	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 13:41
S10 0	1	("6550881").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/10 13:41
S10 1	5	("5589861"   "6048045"   "6158850"   "6209980"   "6271928").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:42
S10 2	1	("5788833").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/10 13:45
S10 3	19575	ink with level	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 13:50
S10 4	30416	rheostat	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 13:46
S10 5	35	S103 and S104	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 13:46
S10 6	50209	ink with amount	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 13:51
S10 7	58	S104 and S106	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 13:51
S10 8	51	S107 not S105	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:24

## EAST Search History

S10 9	12701	ink with sensor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:24
S11 0	30416	rheostat	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:24
S11 1	15	S109 and S110	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:38
S11 2	1	("20030085939").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/10 14:40
S11 3	1	("20030142162").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/10 14:41
S11 4	2231	347/43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:42
S11 5	1	("20030043231").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/10 15:46
S11 6	1	("20050206700").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/10 16:14
S11 7	1	("5406315").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/11 12:36